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Assistant Commissioner of Patents
Washington, D.C. 20231

Sir:

Transmitted herewith for filing is a CONTINUATION-IN-PART application of pending PCT/IE00/00074 which has designated the U.S., filed on June 8, 2000, of Cathal McGLOIN and Raymond McGLOIN for A PERFORMANCE MANAGEMENT SYSTEM. The application comprises a 39-page specification, including 15 claims (2 independent) and Abstract and 8 sheets of drawings.

Accompanying the application for filing is:

Preliminary Amendment;

Small Entity Declaration under 37 C.F.R. Section 1.9(c-f)

Assignment document, cover sheet and \$40.00 fee for recordation of Assignment;

for Small Entity		345.00
Total Claims	15 in excess of 20 = 0 (x \$18/9.00) =	.00
Total Ind. Claims	2 in excess of 3 = 0 (x \$78/39.00) =	.00
	+	
	TOTAL FILING FEE	345.00

Check No. 49763 the amount of \$385.00, is enclosed to cover the Filing Fee. The Commissioner is hereby authorized to charge payment of any fees set forth in §§1.16 or 1.17 during the pendency of this application, or credit any overpayment, to Deposit Account No. 06-1358. A duplicate copy of this sheet is enclosed.

Respectfully submitted,
JACOBSON, PRICE, HOLMAN & STERN, PLLC

By *Jonathan L. Reiter Reg. 10/29/00*
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Reg. No. 22,769

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Attny's Docket No. _____

**SMALL ENTITY DECLARATION
[37 CFR 1.9(c-f)]**

Each undersigned declares that:

- (1) the application attached hereto.
(2) U.S. Application Serial No. _____ filed _____
(3) U.S. Patent No. _____ issued _____

(5) U.S. Patent No. _____ issued _____
is entitled to the benefits of "small entity" status for paying reduced fees under 35 USC 41(a) and (b) to the Patent and Trademark Office by virtue of the following:

- (4) Each undersigned declares that he/she qualifies as an independent inventor, or would qualify had he/she made the as defined in 37 CFR 1.9(c).

(5) The undersigned declares that he/she is an official empowered to act on behalf of the concern identified below; that this concern qualifies as a small business concern as defined in 37 CFR 1.9(d); that exclusive rights to the invention have been conveyed to and remain with the small business concern, or if the rights are not exclusive, that all other rights belong to small entities as defined in 37 CFR 1.9.

(6) The undersigned declares that he/she is an official empowered to act on behalf of the organization identified below; that this organization qualifies as a nonprofit organization as defined in

- (a) 37 CFR 1.9(e)(1)
 - (b) 37 CFR 1.9(e)(2)
 - (c) 37 CFR 1.9(e)(3)

(d) 37 CFR 1.9(e)(4) State law of _____
that exclusive rights to the invention have been conveyed to and remain with the organization, or if the rights are not exclusive, that all other rights belong to organizations as defined in 37 CFR 1.9.

- (a) no such person, concern or organization

(b) persons, concerns or organization listed below
[a separate declaration is required from each named person, concern or organization having rights to this invention averring to their status as "small entities." L]

Full Name

Address

Individual Small Business Concern Nonprofit Organization

I/we acknowledge the duty to file, in this application or patent, notification of any change in status resulting in loss of entitlement of small entity prior to paying, or at the time of paying, the earliest of the issue fee or any maintenance fee due after the date on which status as a small entity is no longer appropriate (37 CFR 1.28(b)).

I/we hereby declare all statements made herein of his/her own knowledge are true and that all statements made on information and belief are believed to be true, and further that these statements were made with the knowledge that willful false statements so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application, any patent issued thereon, or any patent to which this declaration is directed

(8)	Typed Name of Inventor	Signature	Date
	Typed Name of Inventor	Signature	Date
	Typed Name of Inventor	Signature	Date

(9) Typed Name of Inventor: John G. Jones

Name of Siswa

Y & G J McCall

Date

Typed Name _____ Signature _____

~~† COMPANY SECRETARY~~

Title of Signatory

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WASHINGTON, DC 20004

Attnv's Docket No.

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[37 CFR 1.9(c-f)]

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(3) U.S. Patent No. _____ Issued _____

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(c) 37 CFR 1.9(e)(3)

(d) 37 CFR 1.9(e)(4) State law of _____ that exclusive rights to the invention have been conveyed to and remain with the organization, or if the rights are not exclusive, that all other rights belong to organizations as defined in 37 CFR 1.9.

(7) Each person, concern or organization to which I/we have assigned, granted, conveyed or licensed, or am under an under contract or law to assign, grant, convey, or license any rights in the invention is listed below.

(a) no such person, concern or organization

(b) persons, concerns or organization listed below

[a separate declaration is required from each named person, concern or organization having rights to this invention averring to their status as "small entities"]

Full Name

Performix Research Limited

Address

4A Princes Street South, Dublin 2, Ireland

Individual

Small Business Concern

Nonprofit Organization

I/we acknowledge the duty to file, in this application or patent, notification of any change in status resulting in loss of entitlement of small entity prior to paying, or at the time of paying, the earliest of the issue fee or any maintenance fee due after the date on which status as a small entity is no longer appropriate. (37 CFR 1.28(b))

I/we hereby declare all statements made herein of his/her own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that wilful false statements so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such wilful false statements may jeopardize the validity of the application, any patent issued thereon, or any patent to which this declaration is directed.

(8) **McGLOIN, Cathal**

Typed Name of Inventor

McGLOIN, Raymond

Typed Name of Inventor

Signature

1 18/9/00

Date

15/9/2000

Date

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Signature

Date

Typed Name of Inventor

Signature

Date

Typed Name

Signature

Date

Title of Signatory

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant(s): McGloin et al.

International Serial No.: PCT/IE00/00074

International Filing Date: June 8, 2000

U.S. Filing Date: September 29, 2000

For: A PERFORMANCE MANAGEMENT SYSTEM

PRELIMINARY AMENDMENT TO LESSEN FEES

Assistant Commissioner of Patents
Washington, D.C. 20231

Sir:

Prior to initial examination, please amend the above-identified application as follows:

IN THE SPECIFICATION

Before the first line of the specification please insert --This is a PCT Continuation in Part of PCT/IE00/00074, filed June 8, 2000--.

IN THE CLAIMS

Claim 3, line 1, delete "Claims 1 or 2",
insert --claim 1--.

REMARKS

The foregoing Preliminary Amendment is requested in order to delete the multiple dependent claims and avoid paying the multiple dependent claims fee.

Early action on the merits is respectfully requested.

Respectfully submitted,

JACOBSON, PRICE, HOLMAN & STERN, PLLC

By John C. Holman Reg. No. 22,769
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Date: September 29, 2000
Atty. Docket: P65973US0
JCH:iy

"A Performance Management System"

INTRODUCTION

5

Field of the Invention

The invention relates to a performance management system for use in a processing environment in which the people resources account for a large proportion of the

10 operational cost and therefore, associated costs and revenues are dependent on the successful management of the performance of this resource in terms of productivity, quality and behaviour. A contact centre is only one example, and the invention applies to any business requiring performance management.

15 Prior Art Discussion

Heretofore, much work has been carried out on development of contact centre functionality such as switches/ACDs, fax gateway, e-mail, web, Customer Relationship Management, quality and workforce management systems. For

20 example, United States Patent Specification No. US5206903 (AT & T) describes automatic call distribution equipment which routes calls according to agent skills. European Patent Specification No. 0740450A2 (IBM) also describes such a system. PCT Patent Specification No. WO99/60766 (Callscan) describes a system to optimise human resource allocation in a call centre environment. The system 25 includes a knowledge base, a call activity monitor, and a performance reference model.

All of these developments to date focus on the following categories;

30

CONTACT MANAGEMENT

ACD's, Fax Gateways, IVR, E-Mail, Web – to manage and either automatically handle or route customer contacts according to configurable routing criteria.

5 WORKFORCE MANAGEMENT

Workforce Management Systems – used primarily to forecast anticipated workloads and the scheduling of the corresponding resources required to achieve self-imposed service level goals.

10 QUALITY ASSESSMENT

Quality Systems – focused on the monitoring and evaluation of the quality of customer contacts.

CUSTOMER RELATIONSHIP MANAGEMENT

15 "CRM" Systems – focused on consolidating the different customer process systems into a single front-end and providing the employee with a contact history so that the customer queries can be handled better and resolved more efficiently.

Whilst all of these systems have disparate primary functions, they all create detailed
20 and important management information which form part of the overall picture of performance in any organisation.

Objects of the Invention

25 An object of the invention is to provide an organisation with a single source for performance measurement information and a configuration tool to allow an organisation to manipulate and exploit this data to provide all the users with a consolidated view of their own performance or that of their teams, departments, sites or business units.

This is referred to in this specification as "information management".

A second objective is to provide the end-users (mainly agents, team leaders and managers) with a process for managing performance, the process comprising the

5 following.

Performance Review – to facilitate individual review of one's own performance.

Appraisal management - to provide more consistency and objectivity around the review/appraisal process.

10 Personal Development Plan – to ensure that all training and development efforts are more closely linked to the business objectives.

Reward Manager - calculation of reward points and the administration of a gift process to promote improved fairness and staff motivation.

15 The combination of these is referred to in this specification as "performance management".

SUMMARY OF THE INVENTION

20 According to the invention, there is provided a performance management system for use in an organisation having employees working to achieve organisation performance goals, the system comprising:-

configuration functions comprising:

25

an employee setup function comprising means for creating a database record for an employee, and

30

an objective function comprising means for configuring objectives for employee performance,

an information management function comprising means for capturing raw data, and for processing the captured raw data according to an objective to generate employee performance data, and

5

a database comprising means for storing said performance data and for interfacing with the configuration and the information management functions.

10 In one embodiment, the configuration functions comprise an objective group function for creating an objective group of objectives to which similar weightings are applied and for associating an employee record with said objective group.

In one embodiment, the configuration functions comprise:

15

a function for generating an appraisal ratings group of ratings defining how an employee is appraised with reference to objectives,

20

a data dictionary function comprising means for creating a data dictionary item defining how raw data imported into the system is processed and displayed, and

means in the objective function for associating an objective with an appraisal rating group and with a data dictionary item.

25

In one embodiment, the configuration functions comprise an objective wizard function for configuring objectives for employee and team performance.

30 In one embodiment, the objective wizard function comprises means for prompting input of objective description, appraisal definitions, and a rating calculation.

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In one embodiment, the configuration functions comprises a KPI wizard function comprising means for prompting user input of organisation-level ratings and thresholds.

5

In one embodiment, the configuration functions comprise a KPI group review configuration function comprising means for grouping KPIs together for reporting purposes, and the information management functions comprise a KPI group review function comprising means for outputting group review data.

10

In one embodiment, the user interface, the configuration functions, and the performance management functions together have a structure of classes for instantiating objects in a user interface layer, a business logic layer, and a data services layer.

15

In one embodiment, the business logic class instantiates business logic objects having code of a configuration or an information function, and means for terminating the object at the end of a user session.

20 In one embodiment, the business logic layer executes on a business server.

In one embodiment, the data services layer comprises a class for instantiating data services objects residing on a database server and means for terminating said objects after a user session.

25

In one embodiment, the system comprises a transaction server for executing data services layer functions.

30 In one embodiment, the transaction server comprises means for maintaining a pool of data services objects together and for maintaining a pool of database connections.

G S S R N C S E D E G O

In one embodiment, dynamic library links for the objects are registered using proxy stub pairs on both a client and a server.

- 5 According to another aspect, the invention provides a performance management system for use in an organisation having employees working to achieve organisation performance goals, the system comprising:-

- 10 a configuration function comprising means for generating an appraisal ratings group of ratings defining how an agent is appraised with reference to objectives;
- 15 a configuration data dictionary function comprising means for creating a data dictionary item defining how raw data imported into the system is processed and displayed;
- 20 a configuration objective function comprising means for configuring objectives for employee performance;
- 25 a configuration employee setup function comprising means for creating a database record for an employee;
- a configuration objective group function comprising means for creating an objective group of objectives to which similar weightings are applied, and for associating an employee record with said objective group,
- 30 an information management function comprising means for capturing raw data, and for processing said data according to data dictionary items for said objectives and objective groups to generate performance data for an employee record associated with the objective group; and

a database comprising means for storing said performance data and for interfacing with the configuration and information management functions.

5 DETAILED DESCRIPTION OF THE INVENTION

Brief Description of the Invention

The invention will be more clearly understood from the following description of
10 some embodiments thereof, given by way of example only with reference to the accompanying drawings in which:-

Fig. 1(a) is an overview block diagram of a performance management system of the invention;

15 Fig. 1(b) is a diagram illustrating the physical architecture of the performance management system;

20 Fig. 2(a) is a block diagram illustrating the main functions of the performance management system;

Figs. 3 to 4 are sample screen shots illustrating aspects of the performance management system; and

25 Fig. 5 is a flow diagram illustrating linking of objectives with agents.

Description of the Embodiments

Overall Architecture

30

Referring to Fig. 1(a). there is shown a performance management system 1 for the management of performance in a customer services environment and reporting on same. The system 1 interfaces with external performance measurement systems 2 comprising a switch 3, a work force manager 4, and third party systems 5 that store
5 performance measurement data within a structured database and can produce reports on either employee, application, departmental or organisational performance. The external systems 2 do not form part of the invention, however the interface with these systems (API's and integration engine) are a part of the invention, as they allow raw data to be formatted and imported into the performance management system.

10 The system 1 comprises information management functions 6 which use data from a KPI (key performance indicator) table 10 and a results & ratings table 11 within a database 9 to perform calculations pertaining to individual performance of employees, in addition to the overall performance within the customer services
15 centre. The information management functions 6 interact with an HTML user interface 7 to display to the end-user the results of the calculations performed on performance. The database 9 also contains configuration data tables 12. The contents of these tables allow the system 1 to be tailored to suit individual organisations, thus minimising the need for bespoke development of the system to
20 suit particular business operations. The configuration data is captured through the use of configuration functions 8 and a WindowsTM-based interface 13, which provides the user with a GUI to specify the unique characteristics of the organisation.

At a high level, the database 9 captures raw data from the external systems 2 in a
25 structured manner using APIs, however, flat-file reports may alternatively be used. The raw data is processed by an integration engine 18 according to requirements configured in the integration engine. The performance data is provided in real time via the HTML user interface 7 in response to appropriate requests/enquiries. The performance data may relate to individual customer service agents, to teams, or to
30 overall departments and even site locations. Performance is measured against

objectives set up during configuration, and also against KPIs. Like objectives, KPIs have targets but are not rated. However they do not relate to persons, but instead to an organisation or department as a whole.

- 5 The physical architecture of the system 1 is shown in Fig. 1(b). It has a three-tier architecture, which consists of a user interface layer 15 supporting the functions 7 and 13, a business services layer 16 supporting the functions 6 and 8, and a data services layer 17 supporting the database 9. The functions are instantiated as objects from user interface, business logic, and a data services classes. Objects are
10 instantiated for a task such as a user enquiry session and are terminated at the end.

User Interface Layer 15

There are two types of user interface as follows.

15 The Browser Interface 7

This consists of a set of Web classes that reside on a Web server. Objects instantiated from these classes send HTML to a client browser. The primary role of the browser 7 is to view the data in a variety of ways i.e. graphically, tabular, by day, by month, by year. The browser front-end allows the measurement and management of
20 performance. The measurement is by viewing the data in a variety of forms, and the management is by allowing the user to specify (according to his security privileges) targets, development plans, comments and even override results. The Web server interfaces with user Web clients 14.

25 The Interface 13

This consists of a set of forms which reside in the user interface layer 15. It sends the configuration data directly to the business services layer. The primary role of the interface 13 is to configure the browser 7 and to determine the behaviour of the data within the system 1. The Windows interface allows 'tailoring' of the system to meet

the specific requirements and characteristics of the contact management centre, thus omitting the need for expensive customisation of the product.

Business Services Layer 16

- 5 This layer comprises a business server on which resides the functions 6 and 8. These functions perform all calculations and all validations. The interface 13 directly accesses the business server whilst the interface 7 accesses the business server via the Web server.

10 Data Services Layer 17

The data services layer 17 comprises a data server hosting the database 9. This layer performs data integration with the external systems.

- 15 A data server hosts data services objects in addition to the actual database 9. The business server calls the data services object, which then in turn retrieve data from the database 9.

- 20 The system 1 also comprises a transaction server. This handles all of the database transactions between the objects in the business layer and the objects in the data services layer. It holds a pool of objects together, maintains a pool of database connections, and allows improved scalability and performance

- 25 Dynamic Library Links (DLLs) are registered using proxy stub pairs on both the servers and on the client. When a function 6 requires the DLL, the proxy stub pairs direct the function to the DLL stored on the server. The proxy stub pairs therefore enable the objects to communicate with each other across multiple servers.

Functions of System

- 30 Referring now to Fig. 2, the configuration functions 8 include:

- 20 Call Centre Configuration
- 21 Hierarchy Maintenance
- 22 Data dictionary maintenance
- 5 23 Employee Maintenance Utility
- 24 Appraisal rating Group Configuration
- 25 Performance Exception Codes

The information management functions 6 include:-

- 10 50 Objective Wizard
- 51 Objective Group Configuration
- 52 KPI wizard
- 53 KPI Group Review Configuration
- 15 54 KPI Group Review
- 55 KPI Manual Entry

- 20 60 Manual Results Entry
- 61 Performance Review
- 62 Manual Ratings Entry

- 80 Report Manager Configuration
- 81 Report Manager

25 Overview of Functions

The Data Dictionary is a feature that determines how results are generated from imported data and how those results are displayed. The data dictionary is populated by creating individual dictionary entries one at a time. Each entry defines how a

performance related result is generated, such as Average Handling Time, Total Calls, Service Level, etc. For each result obtained, the Data Dictionary entry defines:

- Where the data is obtained from (in the database).
- 5 The calculations that are performed on the data to generate the result.
- How often the data is measured.
- Whose performance is represented in the result (e.g. Agents, Team Leaders, and Managers).
- How the data should be displayed in the system (e.g. AHT given in seconds or minutes).
- 10 Whether the result represents a key performance indicator (KPI).
- Whether the result can be manually overwritten.
- The minimum and maximum permissible values for that result.
- 15 Regarding appraisal rating groups, each group can have up to ten appraisal ratings that will be used when the employees are appraised and their objectives rated against their results. Appraisal rating groups are required because in some organisations employees may be appraised differently depending on, for example, which department or division they work for. The appraisal rating groups are used
- 20 throughout the system. The company defines the review periods (monthly, quarterly, half-yearly, yearly) to apply for performance appraisal within the organisation. Up to 10 Ratings can be defined within a group. Each rating will be given a name, description, and an icon (for graphical representation on-screen).
- 25 An Objective is a performance expectation that is assigned to an individual (agent). The individual is then measured against the performance criteria, e.g. average handling time. This measurement is compared to the objective's target and rated accordingly. The objective is uniquely associated with an objective class. This enables the system to class or sort objectives for reporting purposes.

The company (supervisor) defines whether the objective is based on the individual's results or based on the results of either the team reporting to them or their peer team. Once this has been defined, the company also defines the measurement field (using data dictionary titles) to identify the data being appraised.

5

The measurement data for an objective may be captured automatically (from external, third party systems), or manually entered by a company. This data is then used for comparison against predetermined targets for the objective within defined measurement periods.

10

For team objectives, the result is based on the combined result for all individuals within the team. Once this has been calculated, the team's rating for that objective is derived by referring to the associated appraisal rating group.

15 The company determines the target period to apply to each objective. The target period can be monthly, quarterly, 6-monthly, or yearly.

An objective is automatically rated for the target period selected by the company. However, the company can also determine additional rating periods for the objective

20 if required. It should be noted that the target set for the target period would apply to the additional rating periods.

The company determines whether the objective is rated according to absolute result values or by percentage improvement (or percentage change) from the target value.

25

For absolute result ratings, the company defines the threshold value for each rating defined for that Objective, as well as an operator ($>$, $<$, $=$, \leq , \geq) for it. Individuals are rated depending on which of these ratings their result falls into.

A % Improvement method rates an individual on how much their results deviate from their target. It is measured using the following formula:

$$(Result - Target) / Target * 100$$

5

The resulting percentage value is then compared to the thresholds that have been entered and a rating is obtained.

The company is able to define the number of points that will be allocated for each

- 10 objective upon achieving the specific ratings, as well as the frequency with which reward points are allocated. Thus, individuals are able to receive points for achieving targeted performance levels. Performance is therefore linked with the objectives and their associated targets.
- 15 Once an objective has been created the company assigns it to an appraisal rating group. This defines the rating categories to be applied to the results for that Objective.

An objective group is a collection of objectives that have been grouped together for

- 20 ease of management.

The objectives that can be collected together are defined by:

- The level within the organisational hierarchy for which the objective group is to apply.
- 25 - The appraisal rating group selected.

Each objective group is given a name and a description, and also the level of the hierarchy to which the new objective group will apply.

The ratings that apply to the selected appraisal rating group are displayed and the company can enter a score and edit the overall expectation for each rating.

- A score is used when calculating an employee's overall rating . An overall rating
5 rates an employee on their overall performance, taking into account their results for all of their objectives.

The concept of overall expectation relates to a process of combining ratings.

There are two situations where ratings are combined:

- 10 i. When the ratings that an employee has achieved in each of their objectives are combined to give them an overall rating.
ii. When the ratings that an employee has achieved in each target period are combined to given them a rating for an additional rating period.

- 15 In either of these cases, the overall expectation is used to reduce the final score required to achieve a certain rating.

- The company will be able to select which objectives to place within each group and
20 specify a weighting percentage to apply. Weighting is a means of prioritising objectives, so that high priority objectives carry more weight than low priority objectives. This prevents the system from giving an unrepresentative rating for an employee's performance. The total of all the weightings must add up to 100
25 Each employee that will have objectives assigned to them must first be configured, or setup, into the system. The system creates and maintains a unique record for each employee holding basic employment information. This includes: employee name, system name, password, their level within the organisational hierarchy, who they report to, the associated appraisal group, the associated objective group, the
30 associated report group, the associated KPI group, and the name of their team. It can

also hold additional, optional information: Address details, their ID's on the various third party systems that the system 1 interfaces to, and other related information (mobile phone numbers, etc).

- 5 Each employee is uniquely identified with the system using employee ID number. This number is used to enables the system 1 to setup links to other third part systems.

An employee is associated with at most one organisational level with the hierarchy, such as team leader.

10

An employee record will identify the individual, at the level above within the hierarchy, to whom he or she will report. This also identifies the team name. It also determines which appraisal rating groups, objective groups, report groups, and KPI groups can be associated with the employee.

15

The first person assigned to a team will dictate the Appraisal Rating Group for the team. Thereafter, all other team members must have the same appraisal rating group, regardless of the objective group.

20

Reporting Groups allows the user to create a group which can then have reports associated with it. Once the reports are associated with the group then the group is associated with an employee, hence allowing employees to view specific reports according to their requirements. A KPI Group may be associated with the employee so that the employee can have access to the KPI data held within the KPI group.

25

Only one KPI Group can be assigned per employee.

Detailed Description of Functions

Call Centre Configuration Function 20

The call centre configuration function 20 is used via the WindowsTM interface to construct the conceptual organisational hierarchy. The organisation can configure up to ten hierarchical levels. Fig. 3(a) shows an example for an organisation that has seven levels from agent through to the global organisation view. The screen of Fig.

- 5 3(b) then allows the user to determine functional access (at the browser end) to the various performance management functions for each level as specified in the system hierarchy in Fig. 3(a). This is inputted in a simple Yes/No cellular structure. Because the defined organisational hierarchy forms a basis for the operation of many other functions, amendments to the same can only be made by a senior systems
10 administrator with the appropriate access and user rights.

The function 20 is coded in Visual BasicTM and refers to the characteristics of the customer services centre.

15 Hierarchy Maintenance Function 21

After the call centre configuration has been defined a hierarchy configuration is then set up for each site using the function 21. The fields completed for site configuration are call centre name, call centre ID, year and week start values, system days, close off data, currency mask and a moratorium value.

20

Data Dictionary Maintenance Function 22

- The data dictionary maintenance function 22 allows users to manipulate the measurement data that has been imported from the third party performance measurement systems. The primary purpose is to formulate the performance
25 management system objective fields from all the data fields imported from the external third party databases or performance measurement systems. A sample screen is shown in Fig. 4(a), in which the user is creating a new data dictionary field that forms the measurement of schedule adherence (the percentage of time an agent actually spends signed-on to their phone against the time they were scheduled to be there). As illustrated, the user inputs a name description, associates the data
30

- dictionary field to a level in the hierarchy, and specifies the period against which the measurement data is captured. The level must be chosen from the set established when creating the organisation hierarchy. A second screen, shown in Fig. 4(b), is used to assign the data dictionary name to a database field or a combination of
- 5 database fields and defining how these fields are to be calculated. The calculation is defined by a Value 1/Operator/Value 2 sequence. In the example Fig. 4(b), the user selects the field [fgn_value5] which relates to the actual time the agent was signed-in (taken from the ACD) and divides this by [fgn_value21] which relates to the amount of time they had been scheduled to be signed-in (taken from the workforce management system 4).
- 10

The following table sets out the field descriptions in more detail.

Field Name	Mandatory / Optional	Field Behaviour	Field Description
Field	-	<i>Displayed</i>	This column displays the database fields that may be entered.
Description	-	<i>Displayed</i>	This column displays the description associated with the field. This cannot be edited by the user within the DDM 22 as it is display only. It is stored within the DDM.

Value1	<i>M</i>	<i>Input</i>	This fields allows the user to enter the summation formula for the summary periods. A result will be produced for all periods regardless of whether the period was chosen as a rating period in the objective wizard function. <u>Supported</u> All approved ANSI 92 SQL Statements The result of this part of the formula will be stored in the database and used to sum results for period and teams
Operator	<i>O</i> <i>Mandatory if Value2 is entered</i>	<i>Selection</i>	This operator makes up the complete formula using Value1 and Value2. Initially the data from the foreign data table is calculated using the full formula. To calculate the sum for periods and teams, the formula Value1 Operator Value2 will be used. <u>Available operators</u> +; -; /; *

Value2	O	<i>Input</i>	This fields allows the user enter the second part of the Summation Formula. This field may not be required for similar formulae of a field assignment. <u>Supported</u> All approved ANSI 92 SQL Statements The result of this part of the formula will be stored in the database and used to sum results for period and teams
Result	-	<i>Display</i>	Displays the result of an expression based on skeleton data, when the 'TEST' option is selected.

The following table sets out the command options.

Command Name	Description
TEST	This allows the user to test the full formula entered. A result of the Formula is displayed from skeleton test data in the database.
OK	Saves any changes / additions made by the user without prompting for confirmation of same; and quits component / application.
CANCEL	If change / additions made, prompts user to save same; otherwise quits component / application.
HELP	Opens Help file for component.

- 5 Fig. 4(c) shows the input screen used to define the data dictionary rules. These rules define how the result for the field is entered, displayed, and calculated. As illustrated in Fig. 4(c) the minimum and maximum values are set, as is the display mask. In this case #%% means that the result will be displayed as a % and rounded up with no decimal places. The over-ride check box allows the organisation to control whether

or not these results can be over-ridden by a user's manager. The following table describes the inputs in more detail.

Field Name	Mandatory / Optional	Field Behaviour	Field Description
Min Value	O	<i>Input.</i>	This field is used to restrict the input permitted for a manual data entry or a result override. The value entered must be greater than or equal to this value.
Max Value	O	<i>Input.</i>	This field is used to restrict the input permitted for a manual data entry or a result override. The value entered must be less than or equal to this value.
Display Mask	O	<i>Input</i>	Determines how the result for the data dictionary field will be displayed. Used to indicate currency, percentage, minutes or seconds.
KPI	O	<i>Check</i>	Indicates that this data dictionary field will be used in conjunction with KPI's and not objectives
Manual	O	<i>Check</i>	Indicates that this data dictionary field will require a manager to enter a result manually and that data will not be populated automatically from the switch.

Field Name	Mandatory / Optional	Field Behaviour	Field Description
Override	O	Check	Indicates that results for this data dictionary field cannot be over-ridden in the team performance review screen. This field will be used where the formula for the data dictionary is deemed to be complicated to allow values to be changed.

The following are the command options

Command Name	Description
OK	Saves any changes / additions made by the user without prompting for confirmation of same; and quits component / application.
CANCEL	If change / additions made, prompts user to save same; otherwise quits component / application.
HELP	Opens Help file for component, if in WinHelp then the topic is generally (but not always) specific to the tab / component the user is currently using.

5 The following are the business rules.

Description	If the data dictionary created is to be used to provide data for the key performance indicators (KPI's), then it must be entered above the highest level specified.
Reason	Entering the data dictionary that is to be used in conjunction with a KPI at the highest level

Typical Scenario	A data dictionary is to be created for Average Handling Time, this will also be later used as a Key Performance Indicator. The level for the AHT would have to be the level higher than the highest level specified in Hierarchy Maintenance, i.e.: if the highest level in Hierarchy Maintenance was 'Organisation' at Level 7, then the Data Dictionary for AHT must be specified at Level 8.
------------------	---

The following are the best practices.

Description	The display mask must be configured to reflect the maximum characters as specified in the 'Max Value' field, i.e. if the maximum value is 4 characters (1000) then the display mask must provide provision for 4 characters (###0)
Reason	The input mask must provide provision for all the characters entered into the data dictionary field
Typical Scenario	A manual entry data dictionary is set-up called 'revenue', which will have a maximum amount of £1,000,000. The call centre wish this to be displayed with commas separating every 3 characters, a '£' sign and to 2 decimal places, therefore the input mask is specified as '£#,###,##0.00'

5 Employee Maintenance Utility 23

The employee maintenance utility 23 creates an employee (agent). The inputs include name, password, password confirm, organisation hierarchy level, a manager to whom the employee reports, an ID, an objective group of which the employee is a member, a team name, a flag indicating whether KPI data will be attributed to the employee, addresses, system ID, and any additional information.

10 The following business rules are applied to employee creation, objective creation, and objective modification.

Employee Creation

Description	Before assigning an employee, a manager, team name or objective group, the employee must be assigned a level.
Reason	The level determines the possible managers, teams and objectives that the employee could be assigned.
Typical Scenario	An employee is assigned to manager 'X', belongs to team 'Y' and has objective group 'Z'. Before any of these are specified the employee must be assigned a level such as 'Agent'.

Objective Creation

Description	All employees that share the same manager must be of the same level and the same appraisal group.
Reason	The system 1 only allows provision for a manger to manage employees of a single level. Employees must share the same appraisal group as the performance review assumes only one appraisal group throughout the team.
Typical Scenario	As employees are entered onto the system 1 and assigned managers, only those at the same level and who share the same appraisal group will be allowed to be entered into the same team.

5

Objective Modification

Description	An employee's objective group can be amended after it has been specified. In the event of an employee's objective group being amended more than once in a single day, all intermediate objective groups will be deleted and all results and ratings will be attributed to the final objective group.
-------------	--

Reason	Each objective is specified to an employee. When a new objective is assigned, the current date is attributed to the start date of the new objective. The previous objectives end date is set as the previous days date.
Typical Scenario	The firm intends to move an employee from objective group 'A' to objective group 'B', however it accidentally moves the employee to objective group 'C'. The mistake is later rectified on the same working day, any results and ratings that were collected and attributed for objective group 'C' will be reallocated to objective group 'B'.

Appraisal Rating Group Configuration Function 24

The appraisal rating group configuration function 24 allows the user to define appraisal rating groups. Each group can have up to ten appraisal ratings, which will

- 5 be used when to rate individual employee's objectives.

The review periods available for the system are also defined within this utility. These review periods dictate the 'period selection tabs' displayed in functions such as personal performance review and appraisal manager, as well as dictate the periods

- 10 (apart from daily and weekly) when ratings can occur as set out in the objective wizard function.

The user creates the appraisal rating groups and these will be used throughout the system. These appraisal ratings form an integral part of the system. Separate

- 15 appraisal rating groups would be set up where a different function in the organisation might wish to rate individuals in a different fashion.

The input screen defines an appraisal rating group and the appraisal review periods that apply to it. This screen allows the user to configure appraisal rating groups

- 20 which are used in conjunction with objective wizard, objective group configuration -

objective group rating, appraisal manager, personal performance review. The user configures appraisal rating groups, which appear on all the above screens. There is a maximum of ten Appraisal Ratings per group and more than one appraisal rating group can be created. The users must ensure that they select all the review periods

- 5 required for all objectives i.e.: they might only have a requirement to review sickness and absence at the 6-month juncture. However, they must select 6 month and it will apply to all. The review period is by appraisal group and not by objective.

Performance Exception Codes Configuration Functions 25

- 10 The performance exception codes configuration function 25 allows the user to configure standard codes which can be used by an individual's manager to over-ride their performance for given reasons like system issues, health etc. This functionality ensures that the system 1 allows discretionary management decisions within the organisation but has a means of tracking and reporting on these.

- 15 The basic principle behind this is that the agents (and team leaders) take responsibility for their own performance and enter comments against their performance (good or bad) in personal performance review. The manager then has the ability to exclude/override the result for that day from their overall result and
20 from any averages. They must however enter a code for the exception; this will be reported to management and will highlight the various reasons for excluding bad results. This screen is the configuration screen to set up the standard reason codes and is mainly used during the initial system installation. Ongoing changes or additions may be needed as the conditions change.

25 Objective Wizard Function 50

An objective wizard function 50 defines an objective. An objective is a performance expectation assigned to an individual and is set up using the objective wizard 50. The wizard function 50 prompts input of the following values.

Field Name	Mand. / Opt.	Field Behaviour	Field Description
Objective Name	<i>M</i>	<i>Input</i>	Name of new objective e.g. average handling time
Description	<i>M</i>	<i>Input</i>	Free-format textual narrative explains the overall purpose of the objective.
Appraisal Rating Group	<i>M</i>	<i>Input – Pre-defined List</i>	This field allows a user to assign an appraisal rating group to an objective, thereby allowing the user to review and appraise many objectives together.
Objective Class	<i>O</i>	<i>Input – Pre-defined List</i>	This field allows the user to associate an objective class with an objective. It allows the user to class/sort objectives for reporting purposes only.

A next step prompts input of data indicating the source of data for the objective. The following are the inputs.

Field Name	Field Behaviour	Field Description
Rating Calculated	– <i>Option</i>	The rating will be calculated by an overnight process based on results and rating methods

Field Name	Field Behaviour	Field Description
Rating Manual	<i>Option</i>	<p>The rating will be manually entered by a team leader or manager for each target period (as specified on the next screen). This rating will be added together for periods greater than the target period.</p> <p>When this entry is selected, no data dictionary field needs to be selected as we are giving a rating for the objective and no data or results are required to compute the rating. The data dictionary and result type section will be disabled. The rating will always be applied to individuals.</p> <p>The additional rating periods category in a next screen will be disabled. The target period will define the period for which manual rating is entered.</p> <p>After the target period is selected in the following screen, the final screen, "Finished", will be presented in the objective wizard function.</p>
DDField Standard	<i>Option</i>	The measurement data is automatically captured – from the ACD Switch for example. The drop down will list only non-KPI, non-manual data dictionary items.
Manual Result Entry	<i>Option</i>	The user will have to key in the result, which will be used in the objective. The drop-down will list only non-KPI, manual data dictionary items.

Field Name	Field Behaviour	Field Description
DD Field – Drop Down	<i>Selection</i>	<p>Lists All data dictionary fields that are not set up for KPI and are manual only if the Manual Option is selected.</p> <p>The data dictionary field defines the Measurement Period for the objective. One cannot select a target or rating period lower than this measurement period.</p>
Result based upon Individual	<i>Option</i>	<p>The objective will use an individual result when calculating the rating. Objectives of this type may only be assigned to employees at the same level as the data dictionary field associated with the objective, or a higher level.</p>
Result based upon Reportee Team	<i>Option</i>	<p>This is, in effect, the same as Individual results. Individual and reportee team are treated the same by the system. Starting at the level associated with the data dictionary field, results are always summed up into teams. The team result for Level 1 becomes the individual result for Level 2 and so on. This field makes it clearer to the user what type of objective is being set up.</p>

Field Name	Field Behaviour	Field Description
Result based upon Team	Peer	<p>The objective will use the team result when calculating the rating. Objectives of this type may only be assigned to employees at the same level as the data dictionary field associated with the objective or, employees at a level higher than the data dictionary level. The objective is always, in-effect a peer objective, i.e. the employee will be rated on the result of the team that he is part of. The result and rating that he will see will be stored on the database with his manager.</p> <p>When these objectives are assigned to team members, pseudo objectives are assigned to the team leader. No calculation of ratings is performed for the team members, but rather they see the result and rating for the team that is assigned with the team leader.</p> <p>If team peer result is selected, the objective will only be rating using absolute values; i.e. the rating method screen will not be shown and absolute only will be assumed.</p>

The function 50 then proceeds to prompt input of rating periods, rating methods, absolute thresholds, and to improvement thresholds. For example, the rating method maybe based on either an absolute result or a percentage improvement on 5 the initial target set.

Objective Group Configuration Function 51

The objective group configuration function 51 allows users to create and administer objective groups for the purposes of easy handling of objectives. The only constraint for groups is that the objectives have the same appraisal definitions. The objective group is defined by:

5

- name,
- selected appraisal rating group,
- description, and
- objectives within the group.

10

The function 51 also allows a percentage weighting to be applied to each objective within the group. Also, random sample ratings may be applied to each objective.

Linking of objectives to agents

15

As stated above, the information management functions 6 link agents (individuals) to objectives. This is very important as it allows individual agents to "take ownership" of their own performance, aligned to the overall business goals of the organisation, thereby contributing to the overall business success. This is achieved by linking 20 items together as shown in Fig. 5. The chain is as follows:-

creating a data dictionary field in step 30,

creating an appraisal rating group in step 31,

25

linking the data dictionary filed and the appraisal rating group with an objective in step 32,

in step 33 associating the objective with an objective group, and

30

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in step 34, associating the objective group with an agent.

Also, as shown by the interrupted lines the report groups and KPI groups are also associated with the agent in steps 35 and 36. The following summarises the meaning
5 and significance of these items which are linked together.

KPI Functions 52-55

The KPI configuration functions 52, 53, and 54 allow users to define all the key performance indicators associated with the call centre or a subset of the call centre

10 such as customer services. The KPIs are similar to objectives except that they are not assigned to individuals and are not rated. They are merely used to report status. Typical KPIs are Service Level, Abandon Rate, Number of Calls, Total Revenue etc.
If the system 2 has been configured to have more than one Skill Group e.g.: Customer Services and Telesales, then there is a group of KPIs for each of these i.e.:
15 Customer Service Level, Telesales Service Level. The KPI data can often be more frequent than employee objective data, which has a minimum measurement period of one day. The system 2 typically produces service level and other information associated with skill groups (also called applications or queues) every half-hour. This means that the system receives half-hourly KPI data from the customer services
20 system 2.

The KPI's are not rated but they have a target for reference purposes. For example, a call centre might state that the abandon rate target is 5% or less. This can then be shown on a graph or report alongside the actual data to show how the call centre is
25 performing.

The KPI wizard 52 prompts definition of:

- KPI name and description,
- a static target for each month,

30

- additional targets, and
- rules.

In a typical scenario, a manager wishes to see the Abandon rate for the call centre on

- 5 an intra daily basis. A KPI will be set-up to capture this data, and the results will be reviewed via the KPI group review utility and these results are presented in tabular or graphical format. For an effective call centre the manager requires that the Abandon rate is no more than 5%. Therefore, he would enter 5% in the target. As the manager would like to view this on an intra-day basis, the intra-day, daily and weekly check boxes would need to be ticked.
- 10

Regarding targets, in a typical scenario a manager wishes to see the days taken absent due to sickness for the call centre on a yearly basis. A KPI will be set-up to capture this data, and the results will be reviewed via the KPI Group Review utility

- 15 and these results are presented in tabular or graphical format. If the manager wishes to specify the target for the number of days taken absent due to sickness as 40 in a year, the manager would then need to specify in the yearly column the target of 40. If the manager wanted to view the achievement of the target on a quarterly or half yearly basis, then the values of 10 would be needed to be entered for each quarter
20 and the value of 20 for each half year. This also allows the manager to weight the absences (i.e. allow more absences in the winter months than the summer months).

Regarding the rules, in a typical scenario a manger wishes to specify the target for the

- abandon rate as no more than 5%, therefore, the manger would need to set-up a KPI
25 for abandon rate and specify the target as 5%. The manager would then need to check the "<=" box, thus informing the system 1 that any value below the 5% target would be considered as meeting the target. The manager would then need to specify how the next years targets for the KPI would be calculated.

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The KPI group review configuration function 53 allows a user to group a number of KPIs together for reporting purposes. The KPI group review function 54 allows viewing of KPI data as set up by the wizard 52. The functions 52, 53, and 54 all operate with the KPI table 14, which is dedicated to KPI data only.

5

The team leaders and managers may also use this to reward people where there is no set objective against the action, (i.e. a customer phones in stating that they were pleased with the service they received from an agent).

- 10 It will be appreciated that the invention provides for effective centralised performance measurement and reporting, while also greatly assisting with people management in a flexible manner. The system also provides for automated appraisal and reward administration. The ability of agents to view their own development data is very significant as it enhances team participation. The linking of objectives to
15 agents is particularly important at achieving the overall business goals of an organisation.

The invention is not limited to the embodiments described but may be varied in construction and detail within the scope of the claims.

Claims

- 5 1. A performance management system for use in an organisation having employees working to achieve organisation performance goals, the system comprising:-

configuration functions comprising:

10 an employee setup function comprising means for creating a database record for an employee, and

15 an objective function comprising means for configuring objectives for employee performance,

20 an information management function comprising means for capturing raw data, and for processing the captured raw data according to an objective to generate employee performance data, and

25 a database comprising means for storing said performance data and for interfacing with the configuration and the information management functions.

- 25 2. A performance management system as claimed in claim 1, wherein the configuration functions comprise an objective group function for creating an objective group of objectives to which similar weightings are applied and for associating an employee record with said objective group.

- 30 3. A performance management system as claimed in claims 1 or 2, wherein the configuration functions comprise:

00000000000000000000000000000000

a function for generating an appraisal ratings group of ratings defining how an employee is appraised with reference to objectives,

5 a data dictionary function comprising means for creating a data dictionary item defining how raw data imported into the system is processed and displayed, and

means in the objective function for associating an objective with an appraisal rating group and with a data dictionary item.

10 4. A performance management system as claimed in claim 1, wherein the configuration functions comprise an objective wizard function for configuring objectives for employee and team performance.

15 5. A performance management system as claimed in claim 4, wherein the objective wizard function comprises means for prompting input of objective description, appraisal definitions, and a rating calculation.

20 6. A performance management system as claimed in claim 1, wherein the configuration functions comprises a KPI wizard function comprising means for prompting user input of organisation-level ratings and thresholds.

25 7. A performance management system as claimed in claim 6, wherein the configuration functions comprise a KPI group review configuration function comprising means for grouping KPIs together for reporting purposes, and the information management functions comprise a KPI group review function comprising means for outputting group review data.

30 8. A performance management system as claimed in claim 1, wherein the user interface, the configuration functions, and the performance management

functions together have a structure of classes for instantiating objects in a user interface layer, a business logic layer, and a data services layer.

- 5 9. A performance management system as claimed in claim 8, wherein the
business logic class instantiates business logic objects having code of a
configuration or an information function, and means for terminating the
object at the end of a user session.
- 10 10. A performance management system as claimed in claim 9, wherein the
business logic layer executes on a business server.
- 15 11. A performance management system as claimed in claim 10, wherein the data
services layer comprises a class for instantiating data services objects residing
on a database server and means for terminating said objects after a user
session.
- 20 12. A performance management system as claimed in claim 10, wherein the
system comprises a transaction server for executing data services layer
functions.
13. A performance management system as claimed in claim 12, wherein the
transaction server comprises means for maintaining a pool of data services
objects together and for maintaining a pool of database connections.
- 25 14. A performance management system as claimed in claim 10, wherein dynamic
library links for the objects are registered using proxy stub pairs on both a
client and a server.

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15. A performance management system for use in an organisation having employees working to achieve organisation performance goals, the system comprising:-

- 5 a configuration function comprising means for generating an appraisal ratings group of ratings defining how an agent is appraised with reference to objectives;
- 10 a configuration data dictionary function comprising means for creating a data dictionary item defining how raw data imported into the system is processed and displayed;
- 15 a configuration objective function comprising means for configuring objectives for employee performance;
- 20 a configuration employee setup function comprising means for creating a database record for an employee;
- 25 a configuration objective group function comprising means for creating an objective group of objectives to which similar weightings are applied, and for associating an employee record with said objective group,
- an information management function comprising means for capturing raw data, and for processing said data according to data dictionary items for said objectives and objective groups to generate performance data for an employee record associated with the objective group; and
- a database comprising means for storing said performance data and for interfacing with the configuration and information management functions.

ABSTRACT

“A performance management system”

- 5 A performance management system (1) has a database (9) with KPI (10), Results & Ratings (11), and configuration date (12) tables. Configuration functions (8) configure the system to the environment and information management functions perform raw data capture and processing. The configuration functions (8) include a data dictionary function for formulation of calculation rules, and an objective wizard
10 function for configuring objectives. Objectives are associated with individual agents by associating appraisal rating groups and data dictionary items with objectives. The objectives are grouped into objective groups, in turn associated with individual agents.

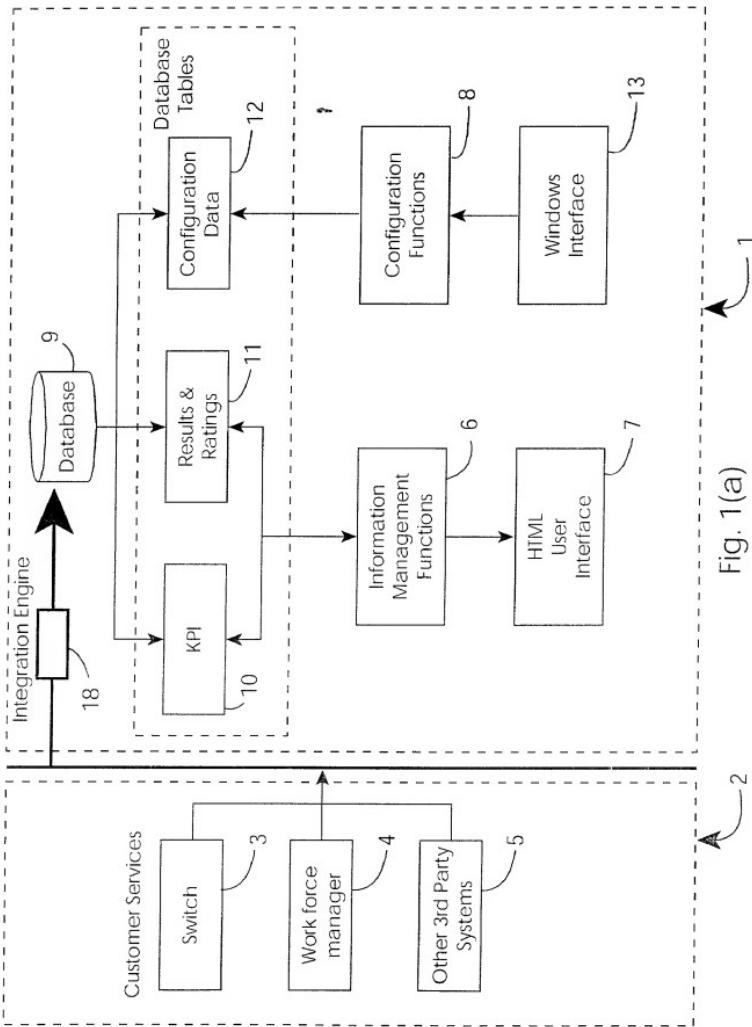


Fig. 1(a)

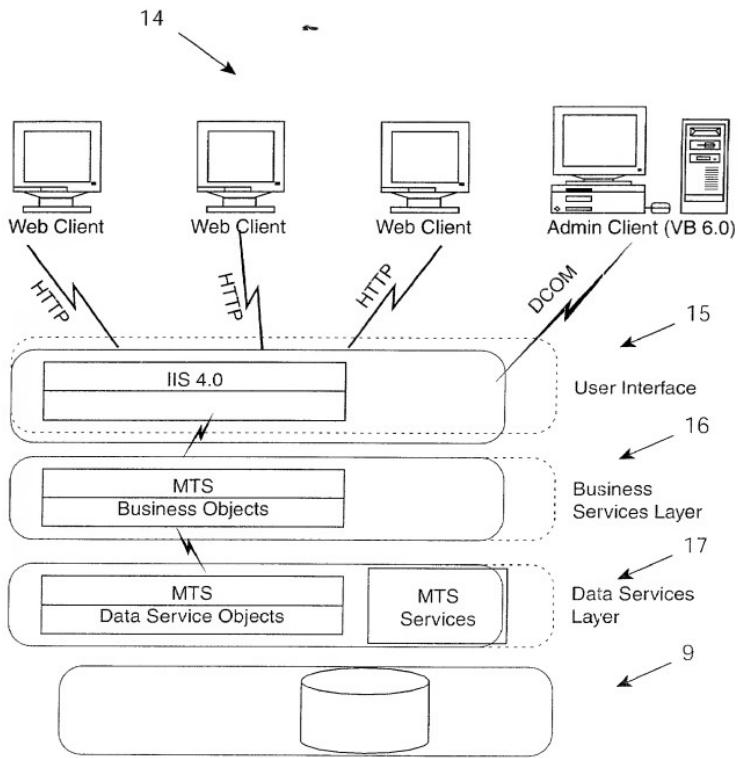


Fig. 1(b)

System Configuration Functions

8

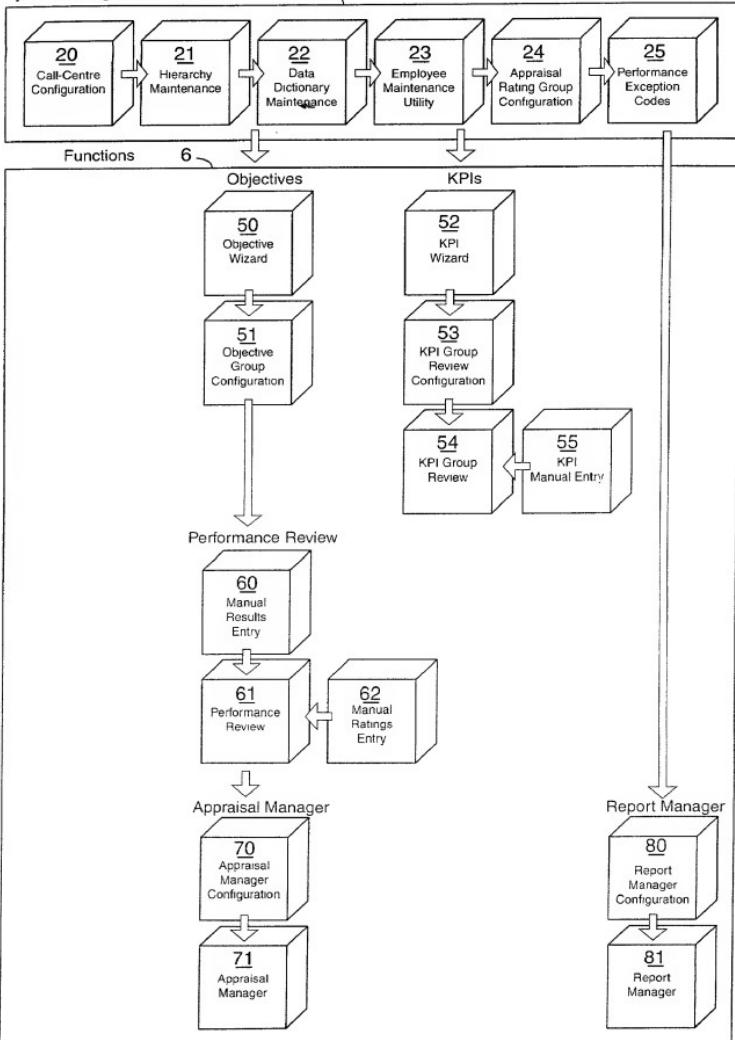


Fig. 2

Hierarchy Maintenance		
Hierarchy	Product Authorisation	
1	Agent	
2	Team Leader	
3	Manager	
4	Senior Manager	
5	Function	
6	Site Address	
7	Organisation	

Fig. 3(a)

Digitized by srujanika@gmail.com

Hierarchy Maintenance

[? X]

Hierarchy Product Authorisation

Product	Agent	Team Leader	Manager	Senior Manager	Function	Sit
APPRAISAL M	✓	✓	✓	✓	✓	
PERSONAL DE	✓	✓	✓	✓	✓	
MANUAL ENTA	✓	✓	✓	✓	✓	
REWARD + REI	✓	✓	✓	✓	✓	
KEY PERF INDI	✓	✓	✓	✓	✓	
REPORT MAN	✓	✓	✓	✓	✓	

[▼] [▼]

[Clear All] [Select All]

[OK] [Cancel] [Help]

Fig. 3(b)

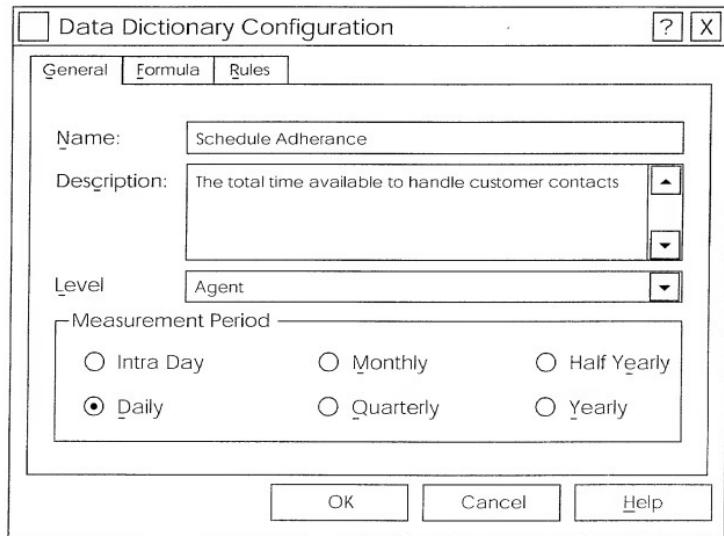


Fig. 4(a)

Data Dictionary Configuration [?](#) [X](#)

General Formula Rules

Field	Description	▼
FGN_VALUE1	Avg Handling Time	▼
FGN_VALUE2	Talk Time	▼
FGN_VALUE3	Wrap Time	▼

Value 1 Operator Value 2

sum[fgn_value5]	/	sum[fgn_value21]
▼	▼	▼

Test Data

Result	Test
--------	------

[OK](#) [Cancel](#) [Help](#)

Fig. 4(b)

Data Dictionary Configuration [?](#) [X](#)

General Formula Rules

Min Value:	0	Max Value:	10000
Display Mask:	#%		
<input type="checkbox"/> KPI Entry			
<input type="checkbox"/> Manual Data Entry			
<input checked="" type="checkbox"/> Override			

[OK](#) [Cancel](#) [Help](#)

Fig. 4(c)

DATA DICTIONARY

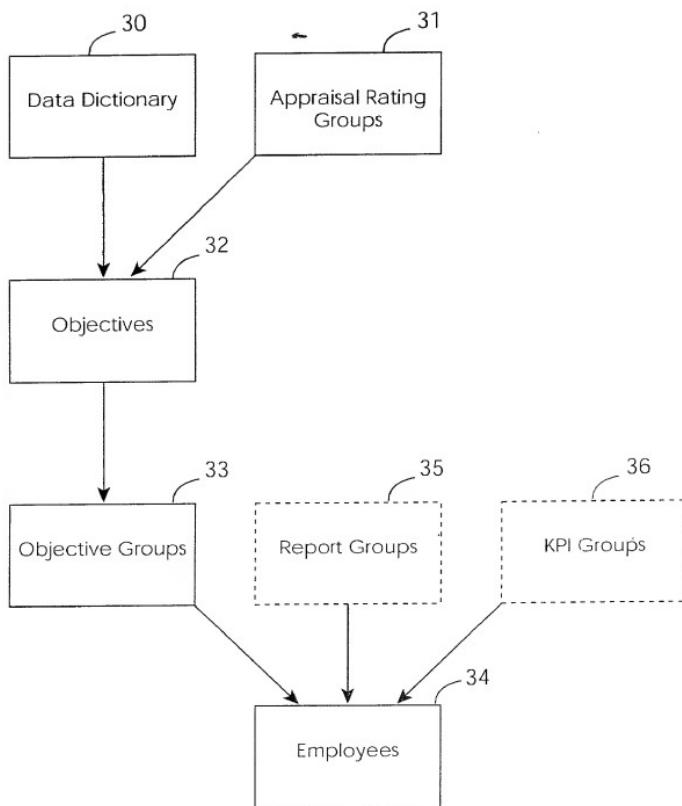


Fig. 5

**DECLARATION
AND POWER OF ATTORNEY
U.S.A.**

FOR ATTORNEY'S USE ONLY
ATTORNEY'S DOCKET NO.

ALL PATENTS, INCLUDING DESIGN
FOR APPLICATION BASED ON PCT, PARIS CONVENTION,
NON PRIORITY, OR PROVISIONAL APPLICATIONS

As a below named inventor, I declare that my residence, post office address and citizenship are stated below next to my name, the information given herein is true, that I believe that I am the original, first and sole inventor (if only one name is listed at 201 below), or a first and joint inventor (if plural inventors are named below 201-203, or on additional sheets attached hereto) of the subject matter which is claimed and for which patent is sought on the invention entitled:

"A performance management system"

101

which is described and claimed in

PCT International Application No.

filed _____

102

the attached specification

the specification in application Serial _____

filed _____

103

(if applicable) and
amended on _____

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above. I acknowledge the duty to disclose information which is material to patentability as defined in Title 37, Code of Federal Regulations, §156. I hereby claim foreign priority benefits under Title 35, United States Code, §119 (c)-(d) of any foreign application(s) for patent or inventor's certificate listed below and have also identified below any foreign application for patent or inventor's certificate having a filing date before that of the application on which priority is claimed.

Prior Foreign Application(s)

990665

Ireland

03/08/99

(Number)

(Country)

(Day/Month/Year Filed)

Priority Claimed

Yes

No

103

(Number)

(Country)

(Day/Month/Year Filed)

Yes

No

104

(Number)

Filing Date

Application No.

Filing Date

I hereby claim the benefit under Title 35, United States Code, §119(e) of any United States provisional application(s) listed below

I hereby claim the benefit under Title 35, United States Code, §120 of any United States application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the last paragraph of Title 35, United States Code, §112, I acknowledge the duty to disclose information which is material to patentability as defined in Title 37, Code of Federal Regulations §156 which became available between the filing date of like prior application and the national or PCT international filing date of this application

105

PCT/IE00/00074

June 8, 2000

Pending International Application

(Status patented, pending, abandoned)

No

POWER OF ATTORNEY As a named inventor, I hereby appoint the following attorney (Registration No.) to prosecute this application, receive and act on instructions from my agent, and conduct all business in the Patent and Trademark Office connected therewith HARVEY B. JACOBSON JR. (20,851), D. DOUGLAS PRICE (24,514), JOHN CLARKE HOLMAN (22,769), MARVIN R. STERN (20,640), MICHAEL R. SLOBASKY (28,421), JONATHAN L. SCHERER (29,851), IRWIN M. AISENBERG (19,007), WILLIAM E. PLAYER (31,409)

SENDCORRESPONDENCE TO:

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PROFESSIONAL LIMITED LIABILITY COMPANY
400 SEVENTH STREET N.W.
WASHINGTON, DC. 20004

DIRECT TELEPHONE CALLS TO:

(Please use Attorney's Docket No.) (202) 638-6666

JACOBSON, PRICE, HOLMAN & STERN
PROFESSIONAL LIMITED LIABILITY COMPANY

*Inventor(s) must include at least one unabbreviated first or middle name

2	FULL NAME OF INVENTOR *	FAMILY NAME McGLOIN	GIVEN NAME Cathal	MIDDLE NAME
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2	FULL NAME OF INVENTOR *	FAMILY NAME	GIVEN NAME	MIDDLE NAME
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3	POST OFFICE ADDRESS	POST OFFICE ADDRESS	CITY	STATE OR COUNTRY ZIP CODE

I further declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and omissions may be made punishable by fine or imprisonment or both under section 101 et seq. of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

SIGNATURE OF INVENTOR 201
Cathal McGloin

DATE
17/9/00

DATE
17/9/00